

Data Path : Z:\HPCHEM1\BNA E\DATA\BE080216\
 Data File : BE092141.D
 Acq On : 3 Aug 2016 9:59
 Operator : UM/SJ
 Sample : PB92567BSD
 Misc :
 ALS Vial : 25 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 PB92567BSD

Manual Integrations
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Quant Time: Aug 03 12:47:15 2016
 Quant Method : Z:\HPCHEM1\BNA E\METHODS\8270-PAH-BE080216.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Aug 02 16:59:37 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.17	152	17199	5.00	ng	0.00
6) Naphthalene-d8	10.98	136	73863	5.00	ng	-0.01
10) Acenaphthene-d10	14.83	164	37811	5.00	ng	-0.02
16) Phenanthrene-d10	17.56	188	76344	5.00	ng	-0.02
22) Chrysene-d12	21.73	240	77938	5.00	ng	-0.02
28) Perylene-d12	24.14	264	73118	5.00	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.69	112	28131	6.37	ng	0.00
5) Phenol-d6	7.34	99	36569	6.21	ng	-0.01
7) Nitrobenzene-d5	9.34	82	16716	2.87	ng	-0.01
11) 2,4,6-Tribromophenol	16.32	330	8004	6.52	ng	-0.01
12) 2-Fluorobiphenyl	13.46	172	34462	2.88	ng	0.00
24) Terphenyl-d14	20.19	244	39141	3.50	ng	-0.02
Target Compounds						Qvalue
2) 1,4-Dioxane	3.44	88	5751	2.46	ng	# 78
3) n-Nitrosodimethylamine	3.78	42	9979	3.10	ng	# 95
8) Naphthalene	11.03	128	47569	3.00	ng	95
9) 2-Methylnaphthalene	12.64	142	32182	3.07	ng	# 86
13) Acenaphthylene	14.54	152	194012	2.91	ng	98
14) Acenaphthene	14.90	154	32057	3.02	ng	# 94
15) Fluorene	15.88	166	36997	2.74	ng	99
17) Hexachlorobenzene	16.89	284	10472	2.80	ng	# 38
18) Pentachlorophenol	17.23	266	8305	5.96	ng	# 82
19) Phenanthrene	17.60	178	64981	3.12	ng	99
20) Anthracene	17.70	178	60949	3.00	ng	100
21) Fluoranthene	19.63	202	258186	2.76	ng	97
23) Pvrene	19.99	202	273180	3.35	ng	97
25) Benzo(a)anthracene	21.72	228	272925	3.19	ng	97
26) Chrysene	21.77	228	233975m	2.73	ng	
27) Indeno(1,2,3-cd)pyrene	26.63	276	288385	3.09	ng	99
29) Benzo(b)fluoranthene	23.40	252	64456m	3.22	ng	
30) Benzo(k)fluoranthene	23.45	252	58758	3.06	ng	96
31) Benzo(a)pvrene	24.02	252	56364	3.07	ng	95
32) Dibenzo(a,h)anthracene	26.65	278	58705	3.35	ng	96
33) Benzo(g,h,i)perylene	27.40	276	251795	3.36	ng	96

(#) = qualifier out of range (m) = manual integration (+) = signals summed

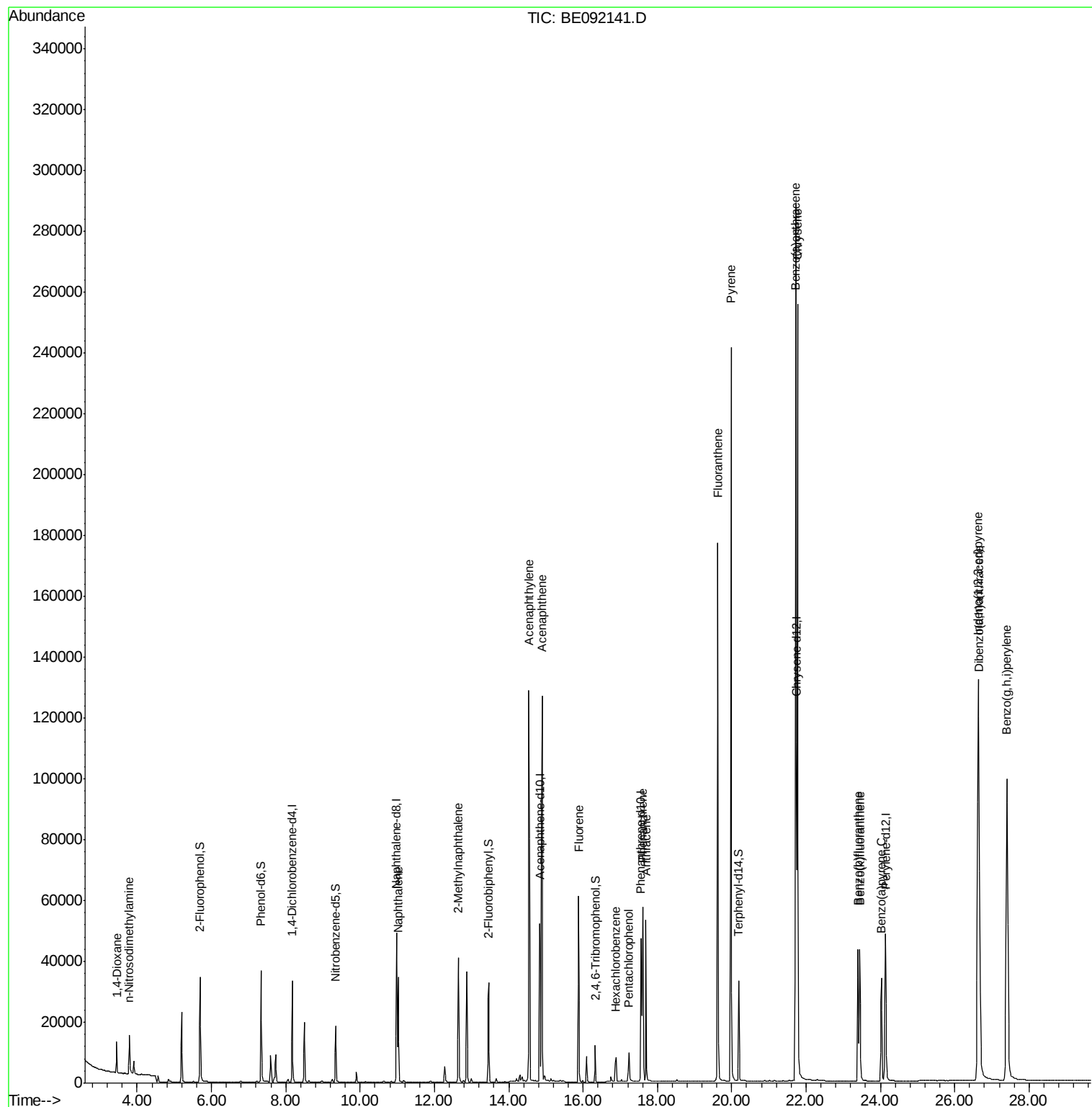
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QLast Update : Tue Aug 02 16:59:37 2016
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#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 8.17 min Scan# 479

Delta R.T. -0.00 min

Lab File: BE092141.D

Acq: 3 Aug 2016 9:59

Instrument :

BNA_E

ClientSampleId :

PB92567BSD

Tot Ion:152 Resp: 17199

Ion Ratio Lower Upper

152 100

150 170.1 106.0 159.0#

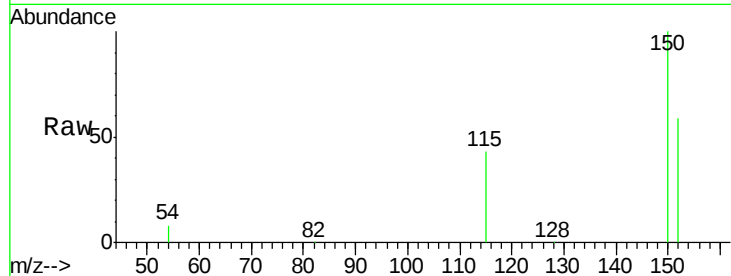
115 72.8 36.9 55.3#

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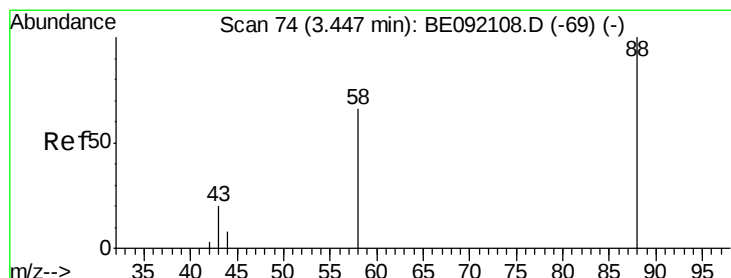
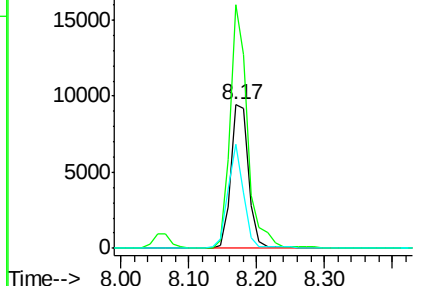
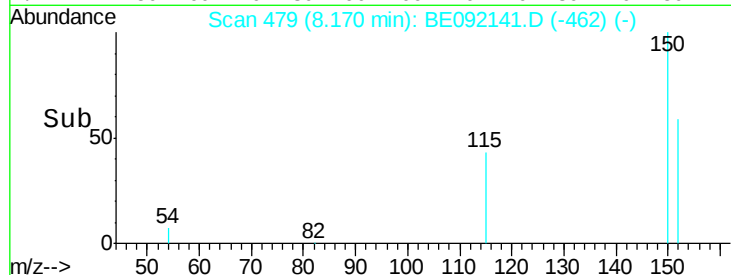
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Abundance Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

Ion 115.00 (114.70 to 115.70): E



#2

1,4-Dioxane

Concen: 2.46 ng

RT: 3.44 min Scan# 74

Delta R.T. -0.00 min

Lab File: BE092141.D

Acq: 3 Aug 2016 9:59

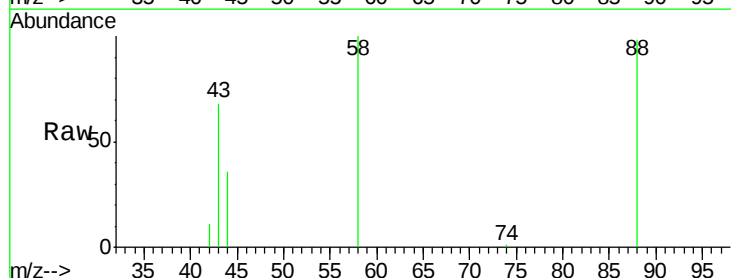
Tgt Ion: 88 Resp: 5751

Ion Ratio Lower Upper

88 100

58 91.7 62.1 93.1

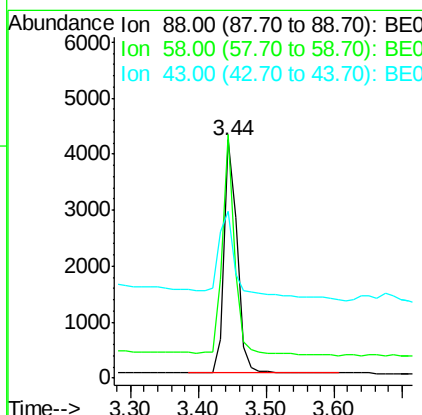
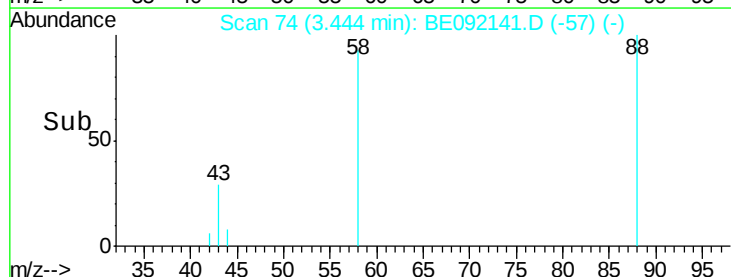
43 54.6 27.2 40.8#

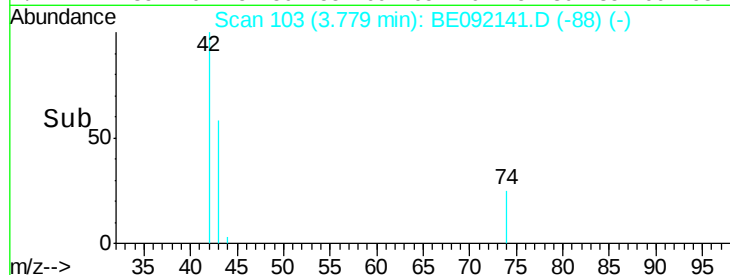
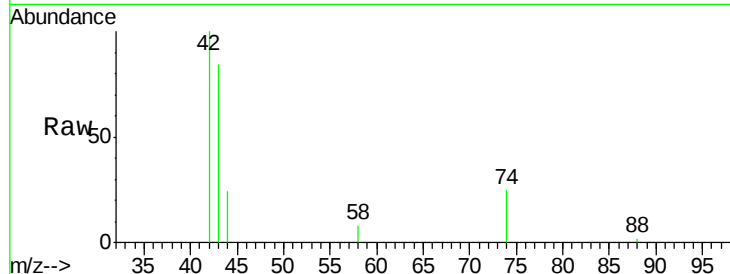
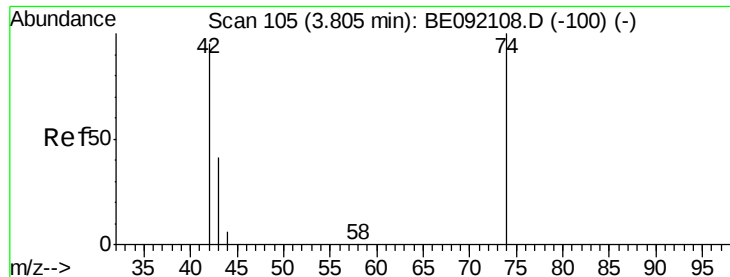


Abundance Ion 88.00 (87.70 to 88.70): BE0

Ion 58.00 (57.70 to 58.70): BE0

Ion 43.00 (42.70 to 43.70): BE0





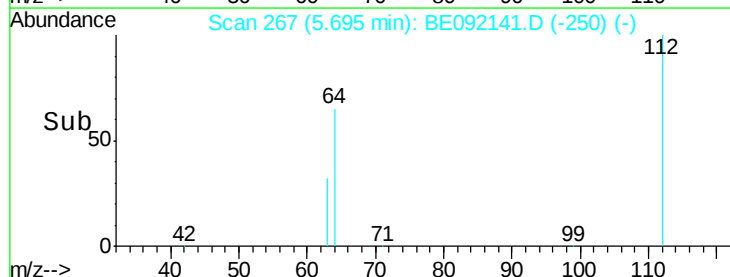
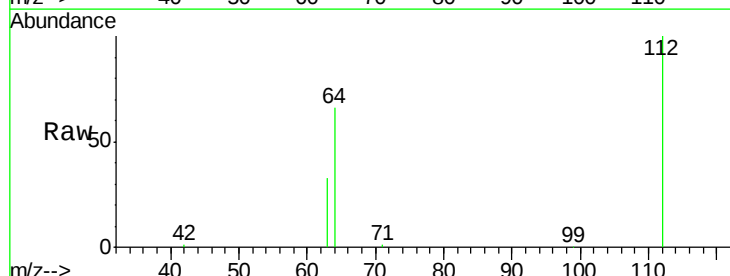
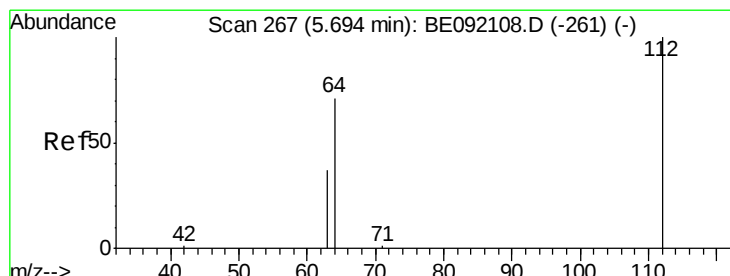
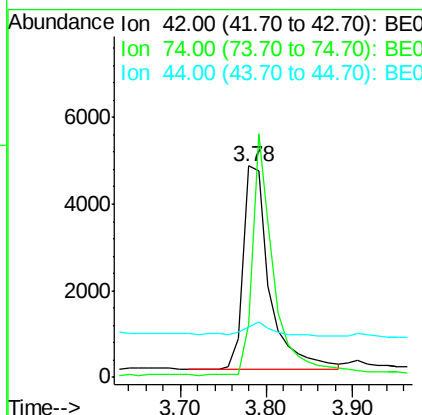
#3
n-Nitrosodimethylamine
Concen: 3.10 ng
RT: 3.78 min Scan# 103
Delta R.T. -0.03 min
Lab File: BE092141.D
Acq: 3 Aug 2016 9:59

Tot Ion	Ratio	Lower	Upper
42	100		
74	99.5	82.8	124.2
44	7.3	9.0	13.4

Instrument :
BNA_E
ClientSampleId :
PB92567BSD

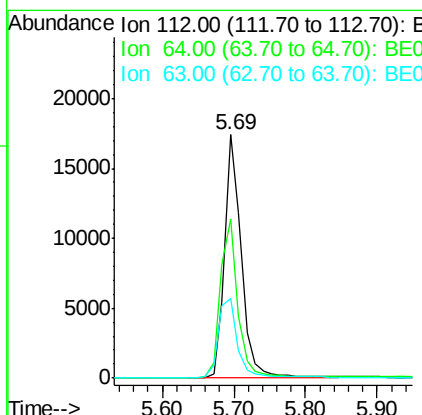
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#4
2-Fluorophenol
Concen: 6.37 ng
RT: 5.69 min Scan# 267
Delta R.T. 0.00 min
Lab File: BE092141.D
Acq: 3 Aug 2016 9:59

Tgt Ion	Ratio	Lower	Upper
112	100		
64	67.1	55.9	83.9
63	36.3	31.1	46.7





#5

Phenol-d6

Concen: 6.21 ng

RT: 7.34 min Scan# 409

Delta R.T. -0.01 min

Lab File: BE092141.D

Acq: 3 Aug 2016 9:59

Instrument :

BNA_E

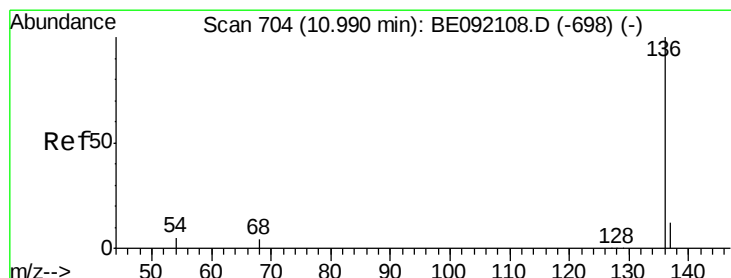
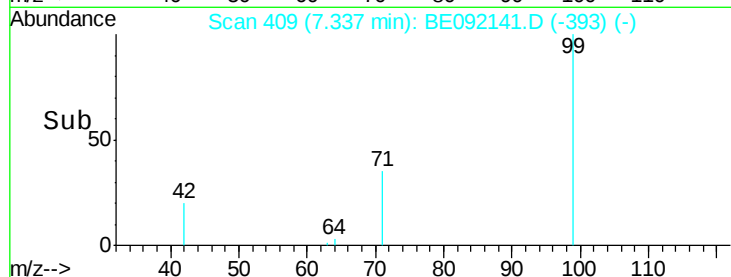
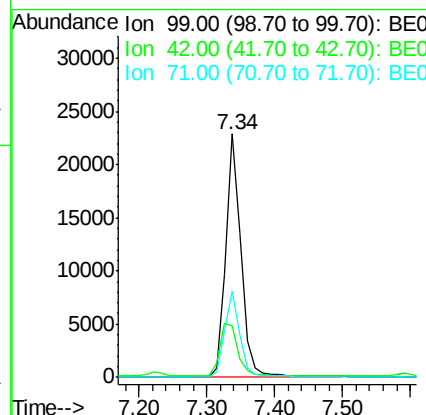
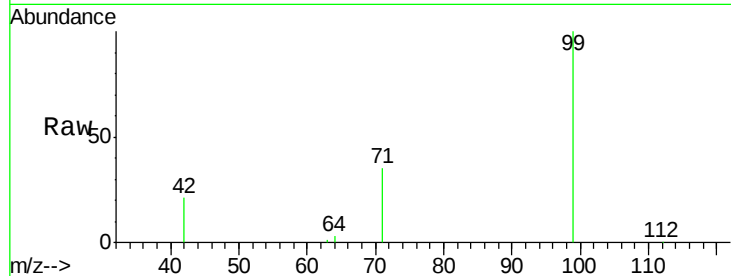
ClientSampleId :

PB92567BSD

Tot Ion:	99	Resp:	36569
Ion Ratio	Lower	Upper	
99	100		
42	25.5	22.4	33.6
71	35.3	28.9	43.3

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#6

Naphthalene-d8

Concen: 5.00 ng

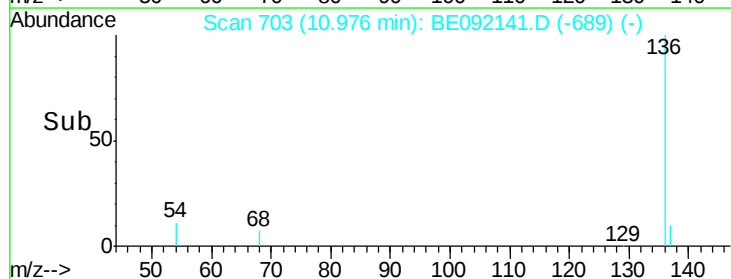
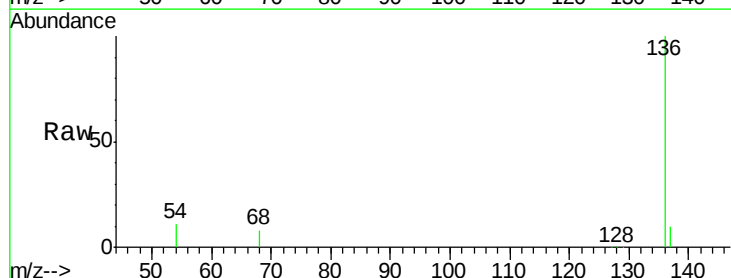
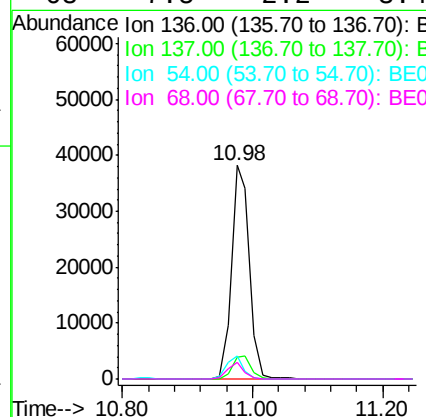
RT: 10.98 min Scan# 703

Delta R.T. -0.01 min

Lab File: BE092141.D

Acq: 3 Aug 2016 9:59

Tgt Ion:	136	Resp:	73863
Ion Ratio	Lower	Upper	
136	100		
137	10.3	9.1	13.7
54	10.9	2.7	4.1#
68	7.5	2.2	3.4#





#7

Nitrobenzene-d5

Concen: 2.87 ng

RT: 9.34 min Scan# 580

Delta R.T. -0.01 min

Lab File: BE092141.D

Acq: 3 Aug 2016 9:59

Instrument :

BNA_E

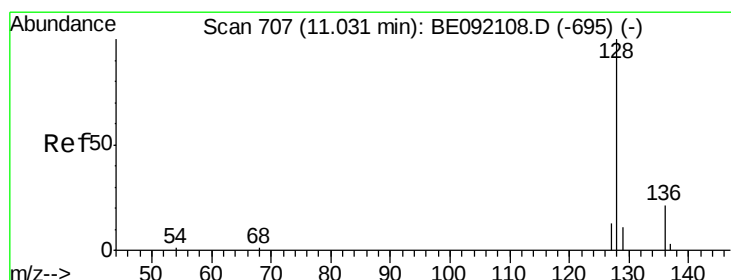
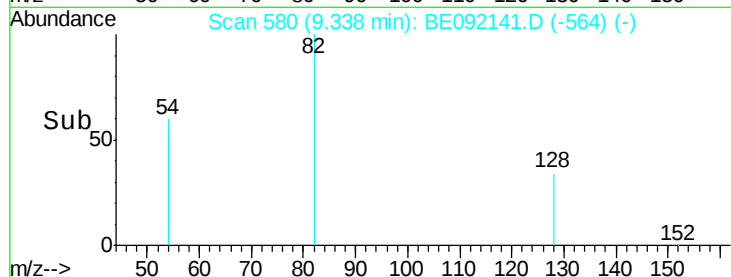
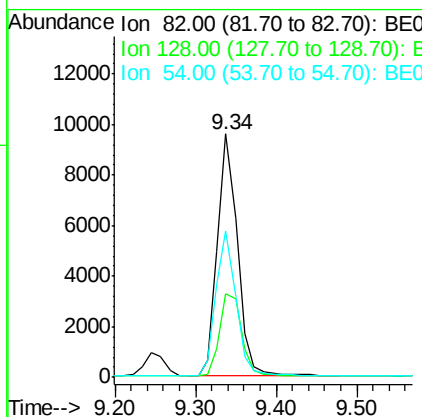
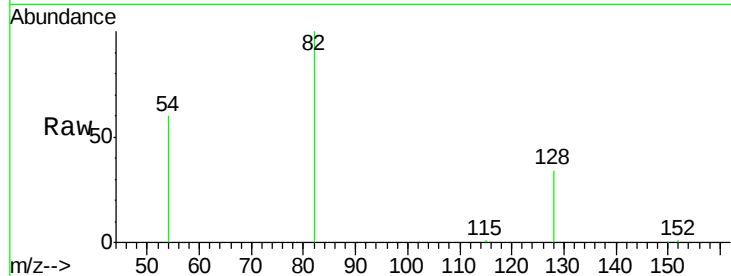
ClientSampleId :

PB92567BSD

Tot Ion:	82	Resp:	16716
Ion Ratio	Lower	Upper	
82	100		
128	34.3	33.0	49.4
54	60.1	42.6	63.8

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#8

Naphthalene

Concen: 3.00 ng

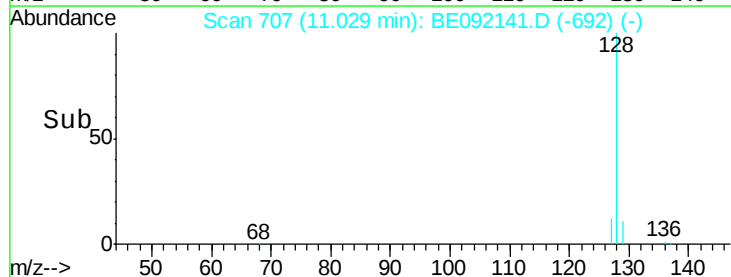
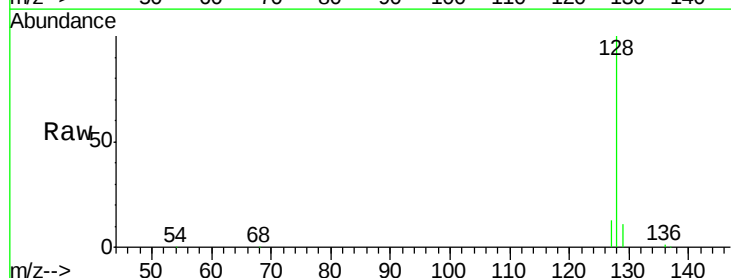
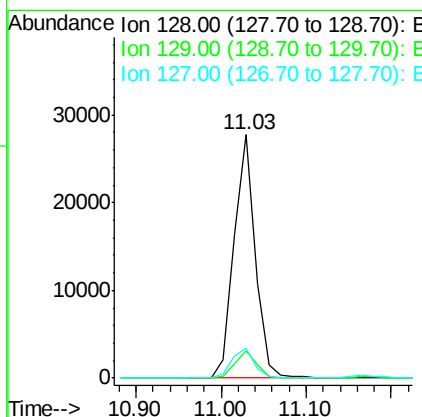
RT: 11.03 min Scan# 707

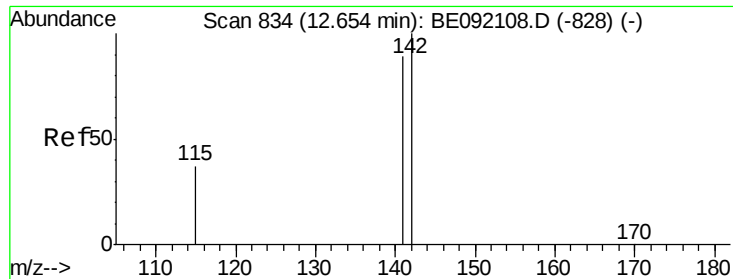
Delta R.T. -0.00 min

Lab File: BE092141.D

Acq: 3 Aug 2016 9:59

Tgt Ion:	128	Resp:	47569
Ion Ratio	Lower	Upper	
128	100		
129	11.3	11.1	16.7
127	12.5	11.3	16.9





#9

2-Methylnaphthalene

Concen: 3.07 ng

RT: 12.64 min Scan# 833

Delta R.T. -0.01 min

Lab File: BE092141.D

Acq: 3 Aug 2016 9:59

Instrument :

BNA_E

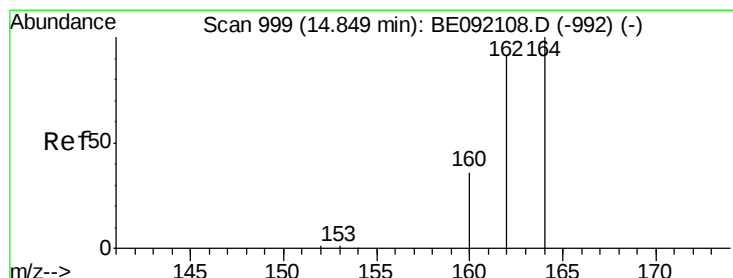
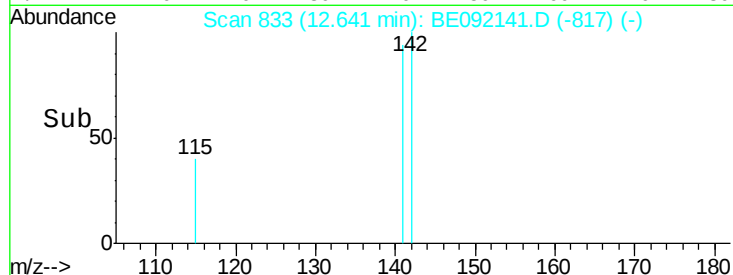
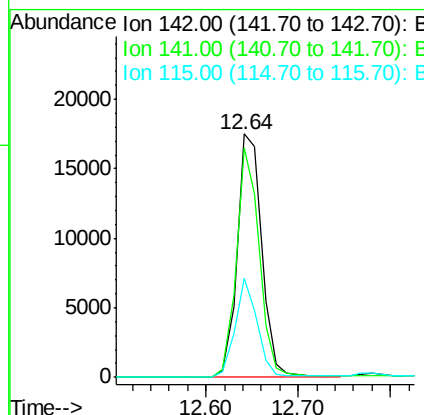
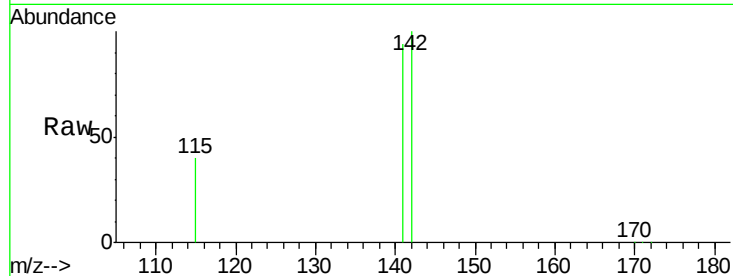
ClientSampleId :

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Tot Ion:	142	Resp:	32182
Ion Ratio	Lower	Upper	
142	100		
141	94.4	65.1	97.7
115	40.5	27.0	40.4#

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#10

Acenaphthene-d10

Concen: 5.00 ng

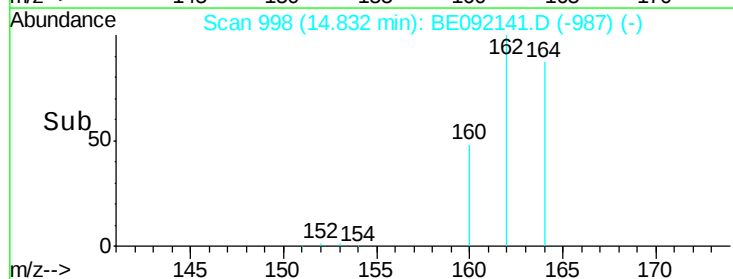
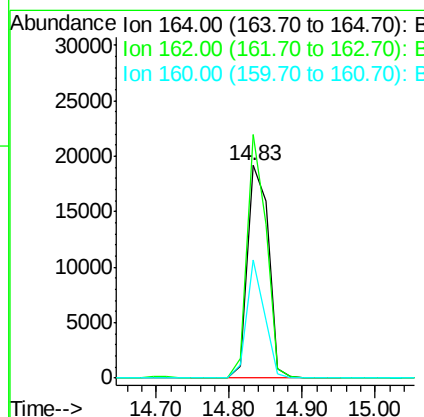
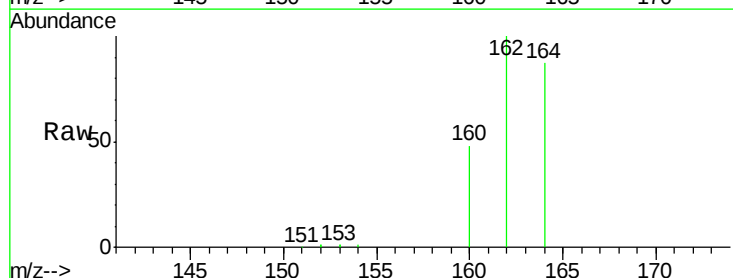
RT: 14.83 min Scan# 998

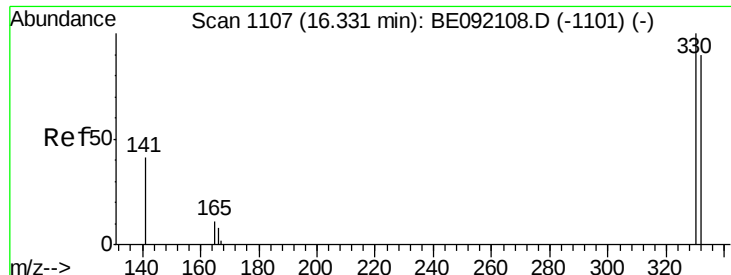
Delta R.T. -0.02 min

Lab File: BE092141.D

Acq: 3 Aug 2016 9:59

Tgt Ion:	164	Resp:	37811
Ion Ratio	Lower	Upper	
164	100		
162	114.6	69.5	104.3#
160	55.6	27.6	41.4#





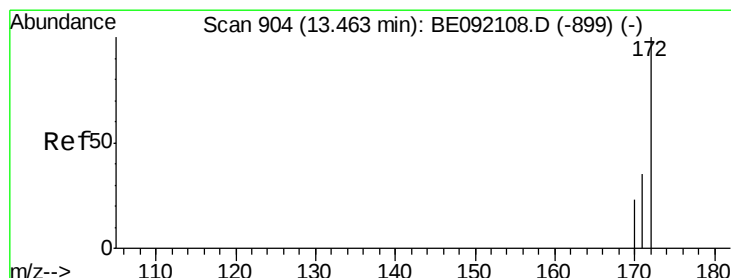
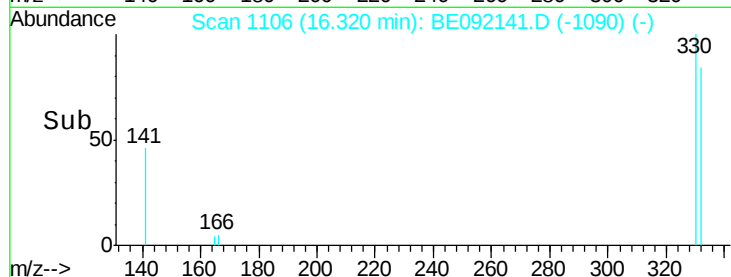
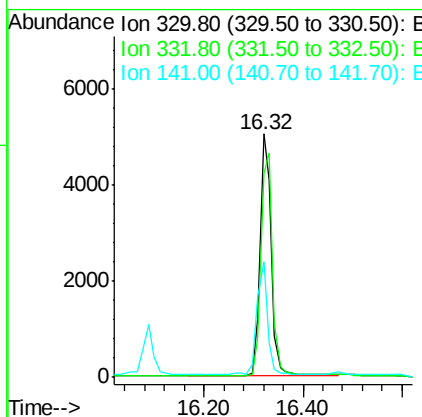
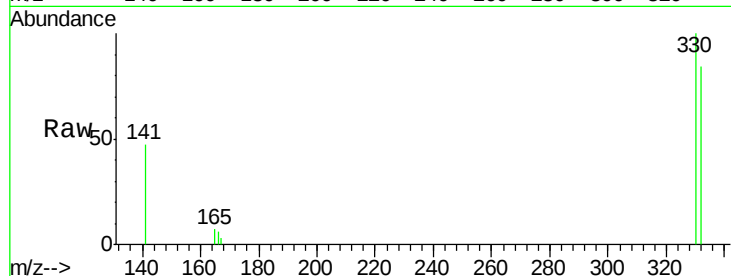
#11
 2,4,6-Tribromophenol
 Concen: 6.52 ng
 RT: 16.32 min Scan# 1106
 Delta R.T. -0.01 min
 Lab File: BE092141.D
 Acq: 3 Aug 2016 9:59

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 ClientSampleId :
 PB92567BSD

Tot Ion	Ratio	Lower	Upper
330	100		
332	96.6	74.2	111.4
141	44.9	139.8	209.8#

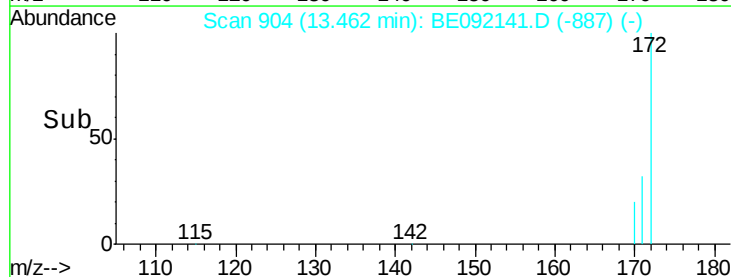
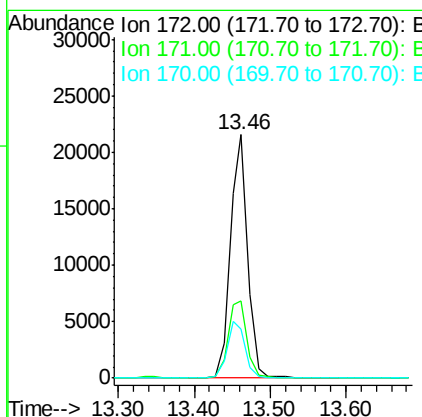
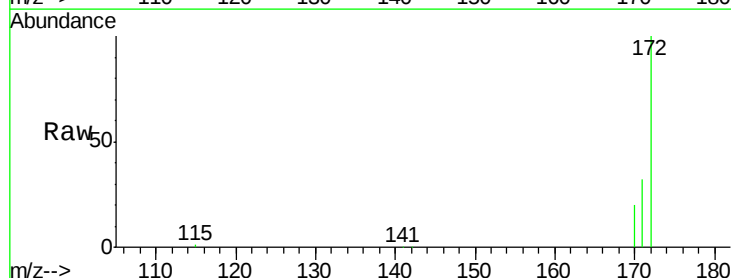
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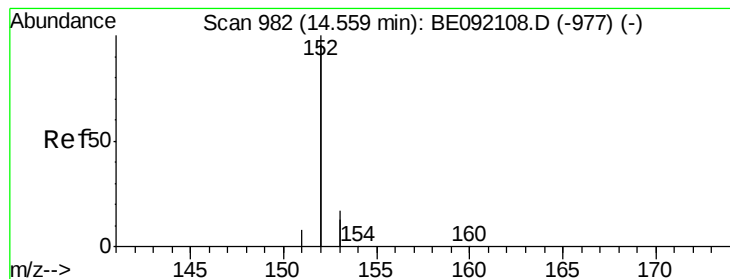
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#12
 2-Fluorobiphenyl
 Concen: 2.88 ng
 RT: 13.46 min Scan# 904
 Delta R.T. -0.00 min
 Lab File: BE092141.D
 Acq: 3 Aug 2016 9:59

Tgt Ion	Ratio	Lower	Upper
172	100		
171	32.0	30.3	45.5
170	20.0	21.6	32.4#





#13

Acenaphthylene

Concen: 2.91 ng

RT: 14.54 min Scan# 981

Delta R.T. -0.02 min

Lab File: BE092141.D

Acq: 3 Aug 2016 9:59

Instrument :

BNA_E

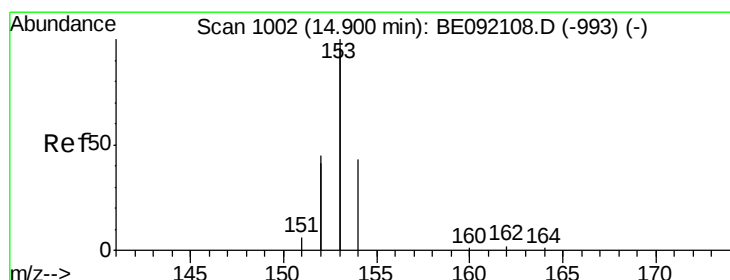
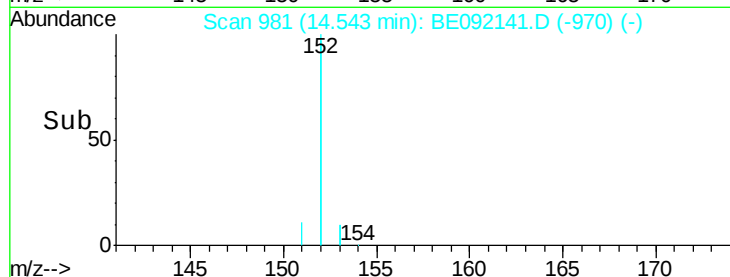
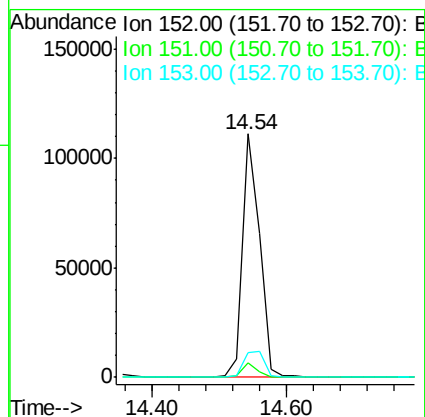
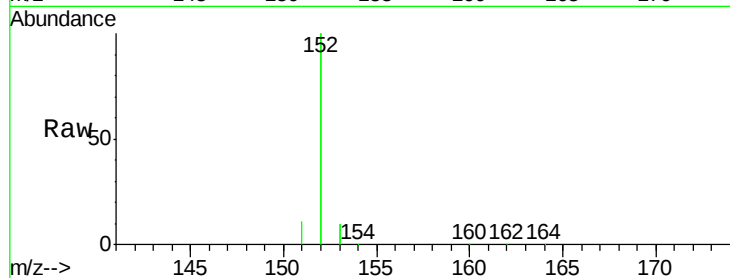
ClientSampleId :

PB92567BSD

Tot Ion	Ratio	Resp	Lower	Upper
152	100	194012		
151	5.0	4.0	6.0	
153	12.9	9.6	14.4	

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#14

Acenaphthene

Concen: 3.02 ng

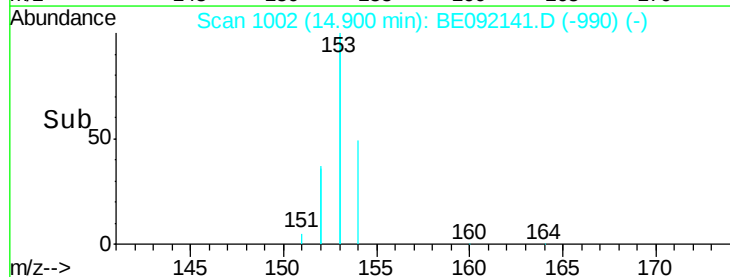
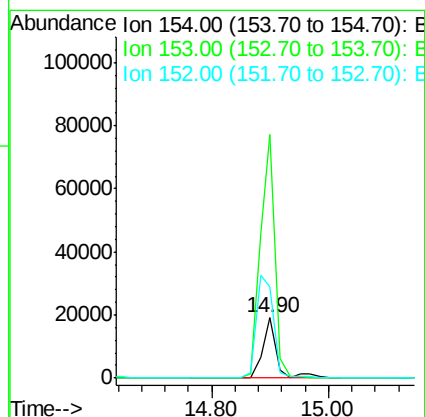
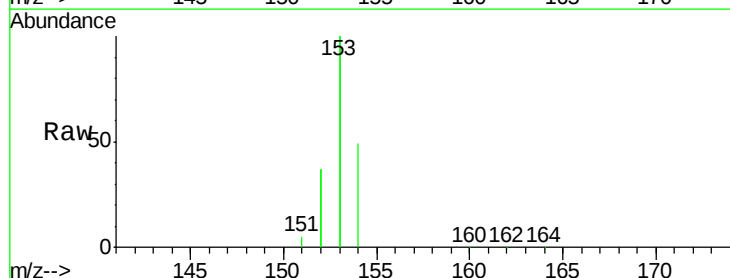
RT: 14.90 min Scan# 1002

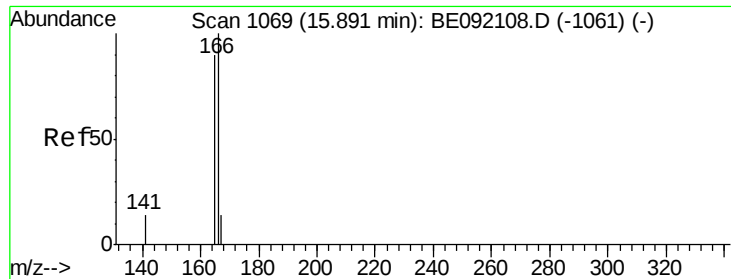
Delta R.T. 0.00 min

Lab File: BE092141.D

Acq: 3 Aug 2016 9:59

Tgt Ion	Ratio	Resp	Lower	Upper
154	100	32057		
153	417.2	345.1	517.7	
152	204.5	0.0	0.0#	





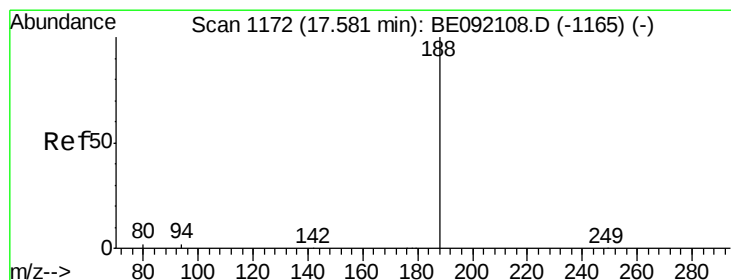
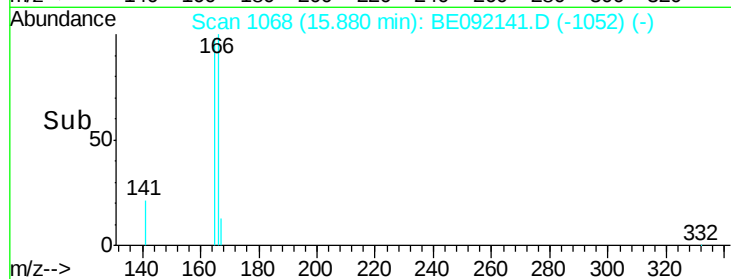
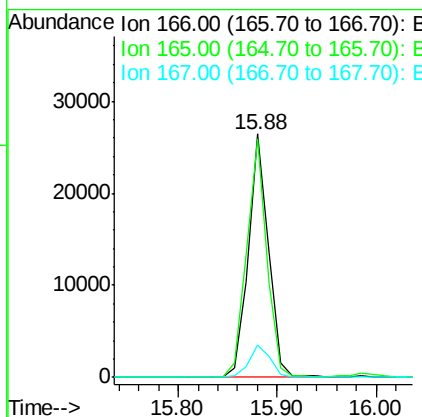
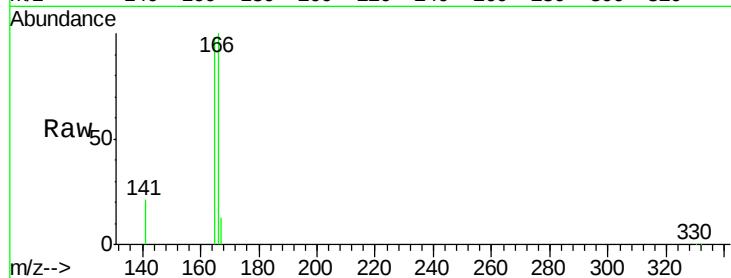
#15
Fluorene
 Concen: 2.74 ng
 RT: 15.88 min Scan# 1068
 Delta R.T. -0.01 min
 Lab File: BE092141.D
 Acq: 3 Aug 2016 9:59

Instrument :
 BNA_E
 ClientSampleId :
 PB92567BSD

Tot Ion	Ratio	Lower	Upper
166	100		
165	97.7	78.6	118.0
167	13.5	11.1	16.7

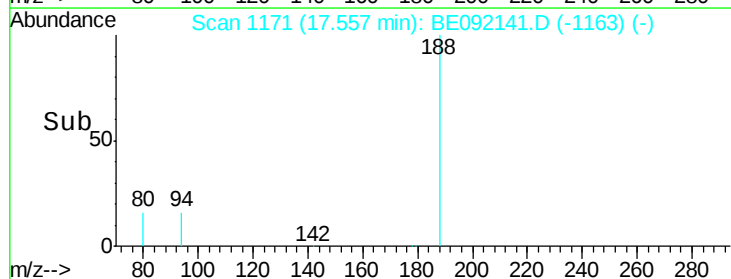
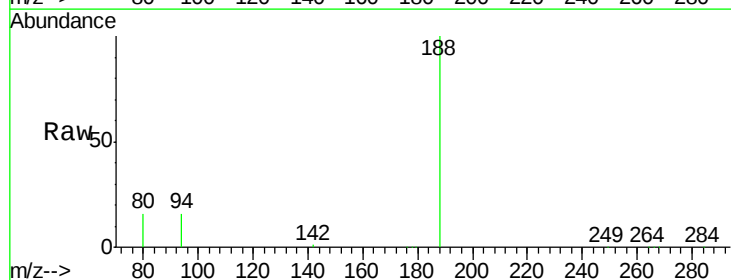
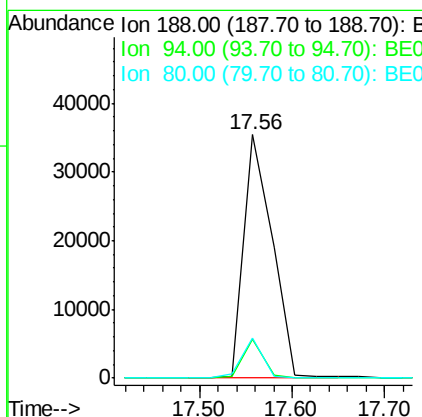
Manual Integrations
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#16
Phenanthrene-d10
 Concen: 5.00 ng
 RT: 17.56 min Scan# 1171
 Delta R.T. -0.02 min
 Lab File: BE092141.D
 Acq: 3 Aug 2016 9:59

Tgt Ion	Ratio	Lower	Upper
188	100		
94	15.9	3.9	5.9#
80	16.4	3.4	5.0#





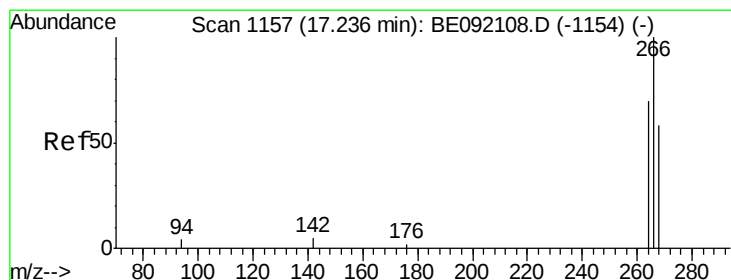
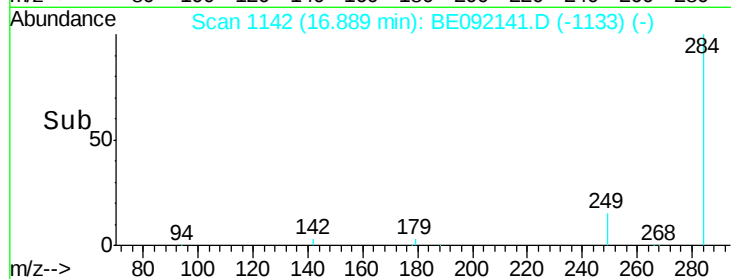
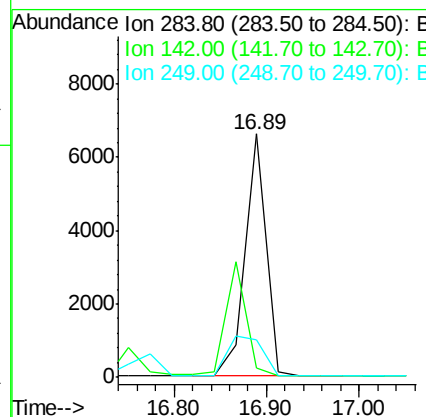
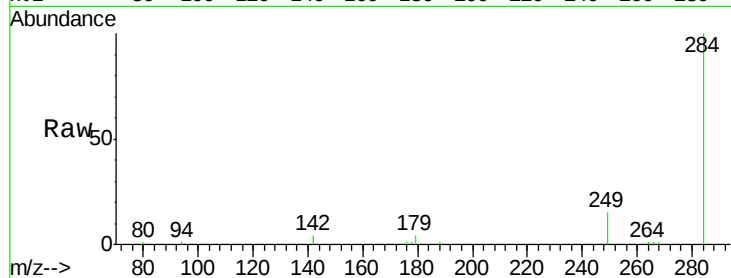
#17
Hexachlorobenzene
Concen: 2.80 ng
RT: 16.89 min Scan# 1142
Delta R.T. -0.00 min
Lab File: BE092141.D
Acq: 3 Aug 2016 9:59

Instrument :
BNA_E
ClientSampleId :
PB92567BSD

Tot Ion	Ratio	Resp	Lower	Upper
284	100			
142	0.0	33.3	49.9#	
249	0.0	25.4	38.0#	

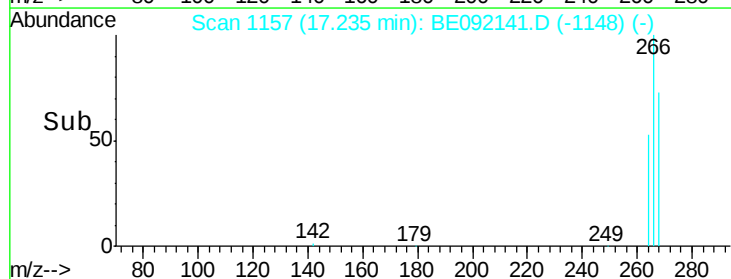
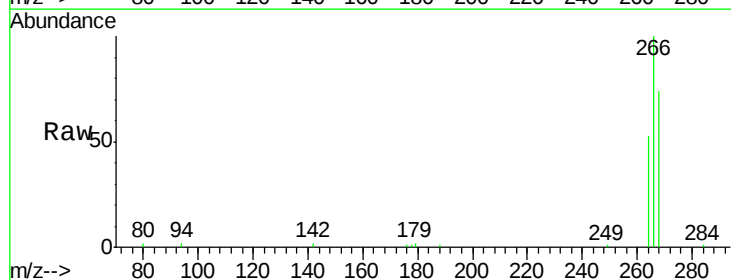
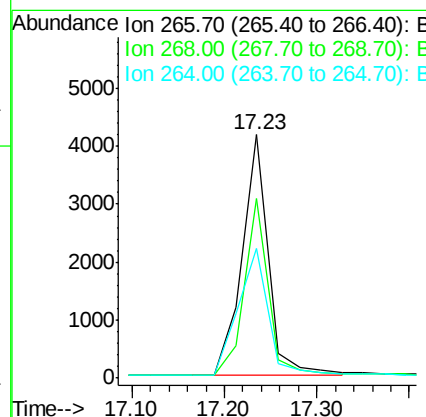
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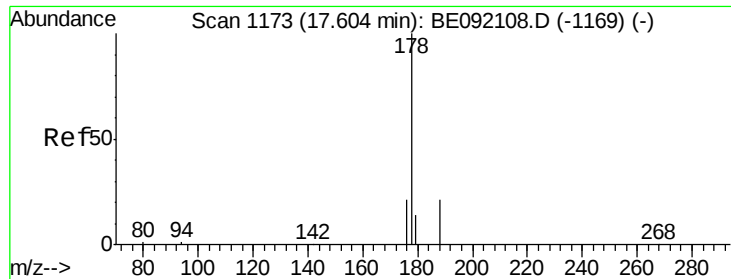
umangi
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#18
Pentachlorophenol
Concen: 5.96 ng
RT: 17.23 min Scan# 1157
Delta R.T. -0.00 min
Lab File: BE092141.D
Acq: 3 Aug 2016 9:59

Tgt Ion	Ratio	Resp	Lower	Upper
266	100			
268	73.6	62.7	94.1	
264	53.3	63.5	95.3#	





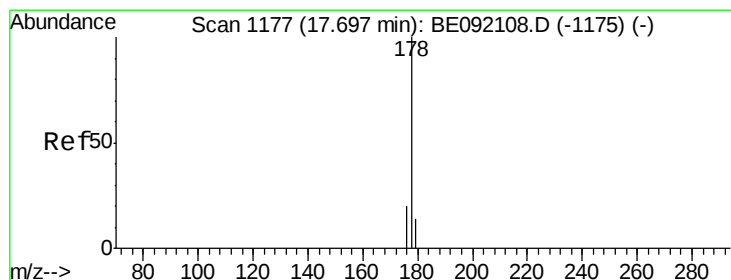
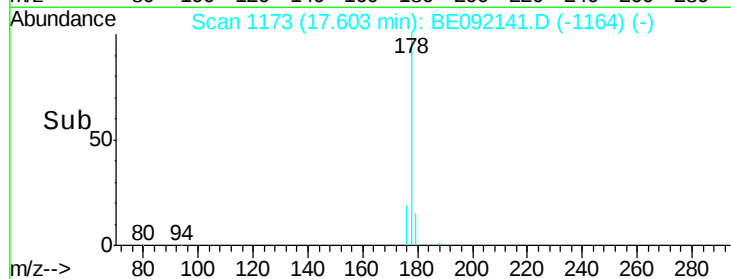
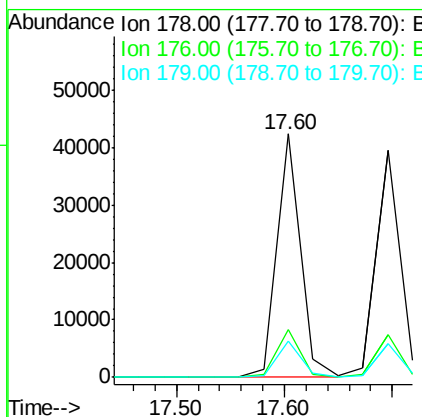
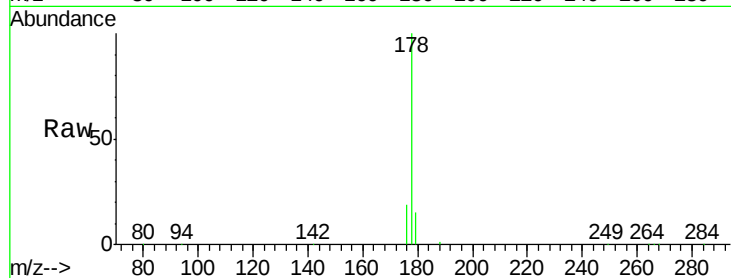
#19
Phenanthrene
Concen: 3.12 ng
RT: 17.60 min Scan# 1173
Delta R.T. -0.00 min
Lab File: BE092141.D
Acq: 3 Aug 2016 9:59

Instrument :
BNA_E
ClientSampleId :
PB92567BSD

Tot Ion	Ratio	Lower	Upper
178	100		
176	19.3	15.4	23.0
179	15.2	12.7	19.1

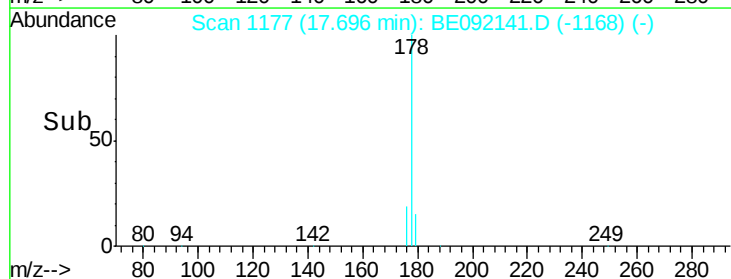
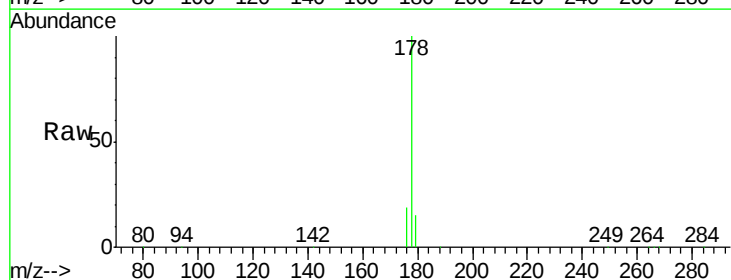
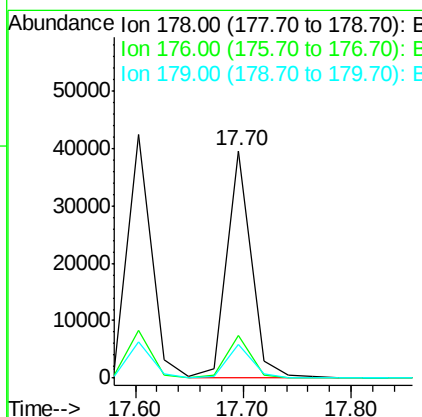
Manual Integrations
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#20
Anthracene
Concen: 3.00 ng
RT: 17.70 min Scan# 1177
Delta R.T. -0.00 min
Lab File: BE092141.D
Acq: 3 Aug 2016 9:59

Tgt Ion	Ratio	Lower	Upper
178	100		
176	18.9	15.2	22.8
179	15.2	12.2	18.4





#21

Fluoranthene

Concen: 2.76 ng

RT: 19.63 min Scan# 1284

Delta R.T. -0.00 min

Lab File: BE092141.D

Acq: 3 Aug 2016 9:59

Instrument :

BNA_E

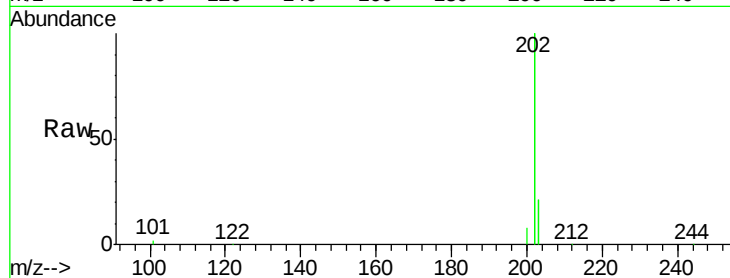
ClientSampleId :

PB92567BSD

Tot Ion:	202	Resp:	258186
Ion Ratio	Lower	Upper	
202	100		
101	2.8	2.2	3.2
203	17.5	13.0	19.4

Manual Integrations
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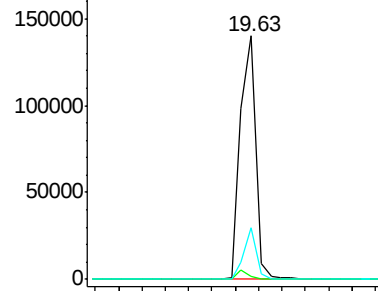
umangi
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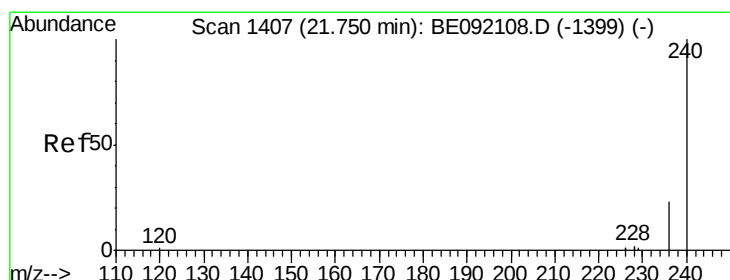
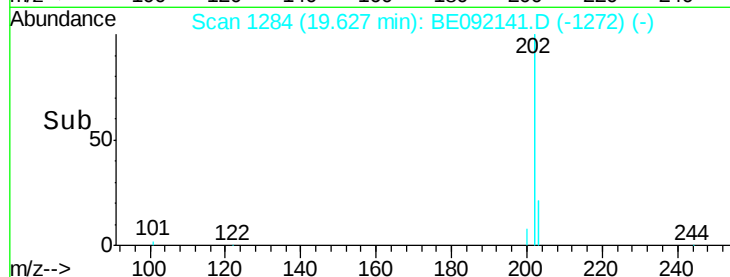
Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E



Time-->



#22

Chrysene-d12

Concen: 5.00 ng

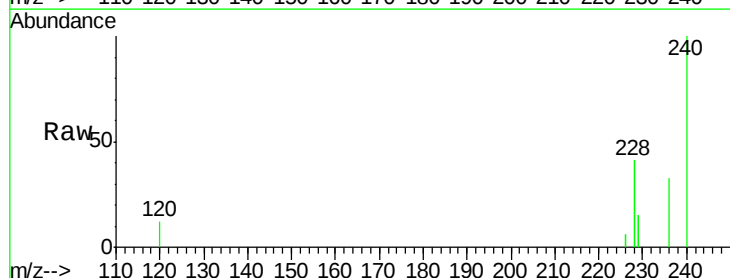
RT: 21.73 min Scan# 1406

Delta R.T. -0.02 min

Lab File: BE092141.D

Acq: 3 Aug 2016 9:59

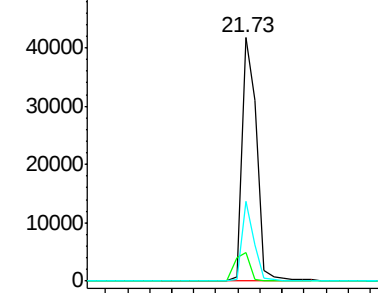
Tgt Ion:	240	Resp:	77938
Ion Ratio	Lower	Upper	
240	100		
120	12.0	0.6	1.0#
236	32.9	18.2	27.4#



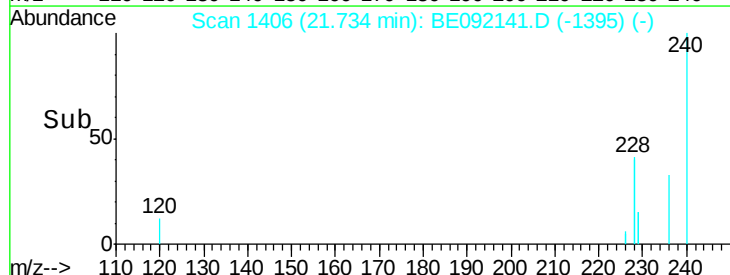
Abundance Ion 240.00 (239.70 to 240.70): E

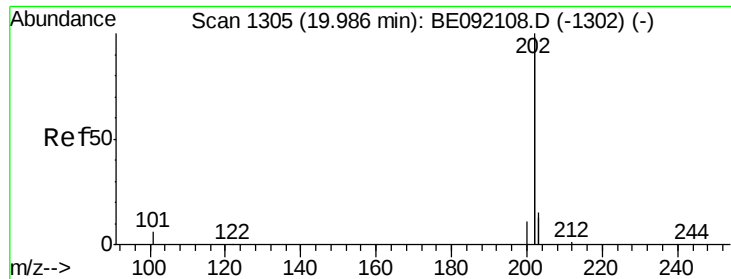
Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E



Time-->





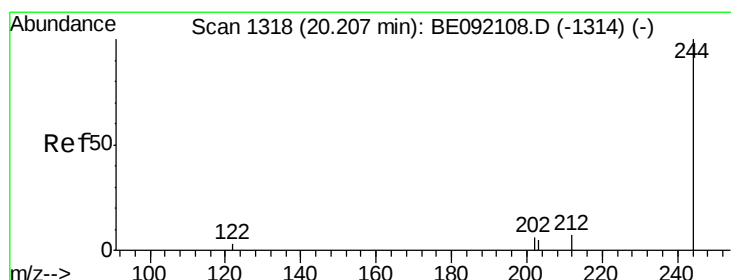
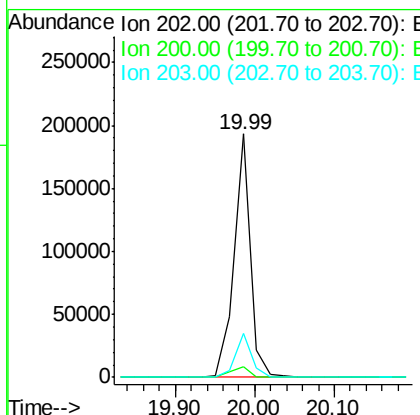
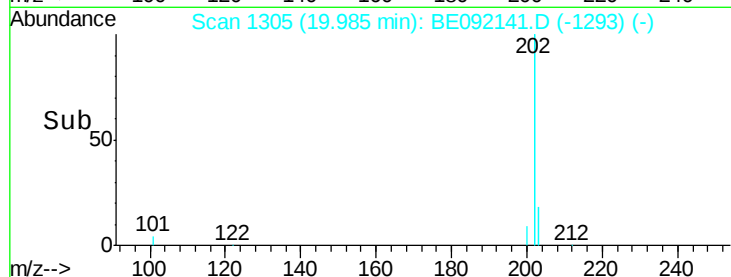
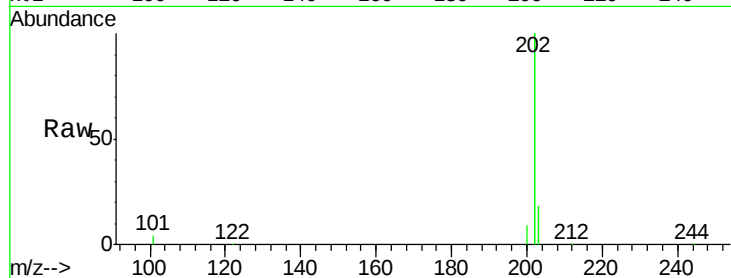
#23
Pvrene
Concen: 3.35 ng
RT: 19.99 min Scan# 1305
Delta R.T. -0.00 min
Lab File: BE092141.D
Acq: 3 Aug 2016 9:59

Instrument :
BNA_E
ClientSampleId :
PB92567BSD

Tot Ion	Ratio	Resp Lower	Upper
202	100		
200	5.2	4.4	6.6
203	18.1	13.4	20.0

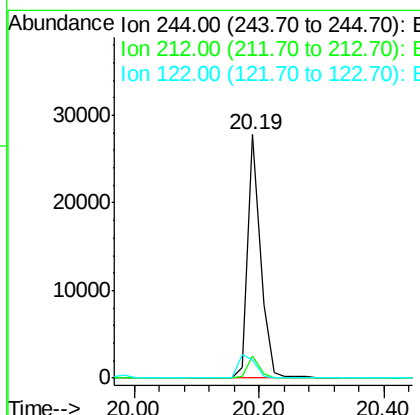
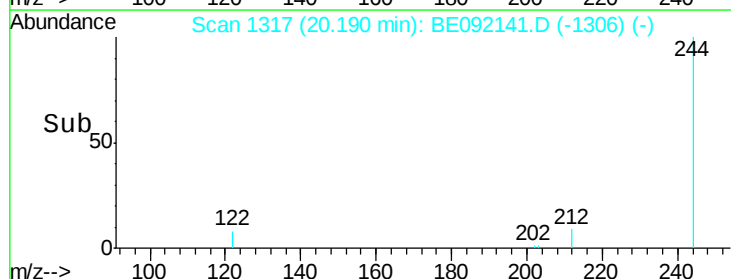
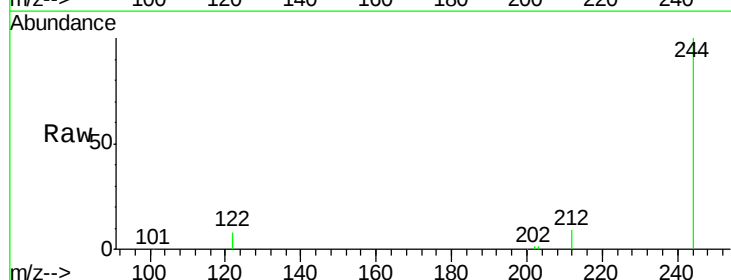
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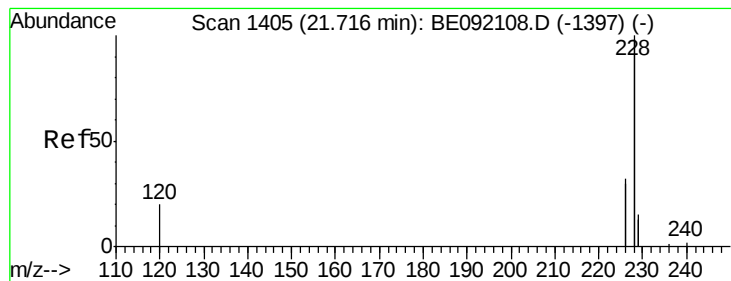
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#24
Terphenyl-d14
Concen: 3.50 ng
RT: 20.19 min Scan# 1317
Delta R.T. -0.02 min
Lab File: BE092141.D
Acq: 3 Aug 2016 9:59

Tgt Ion	Ratio	Resp Lower	Upper
244	100		
212	9.0	9.1	13.7#
122	7.7	11.0	16.4#





#25

Benzo(a)anthracene

Concen: 3.19 ng

RT: 21.72 min Scan# 1405

Delta R.T. 0.00 min

Lab File: BE092141.D

Acq: 3 Aug 2016 9:59

Instrument :

BNA_E

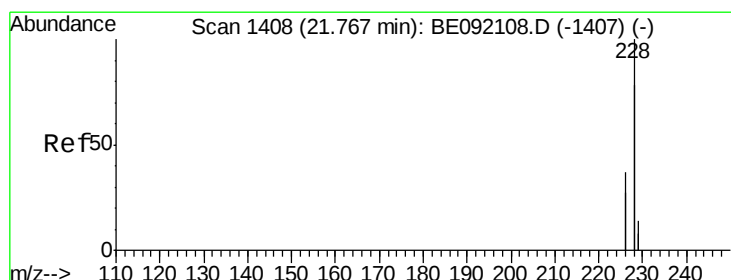
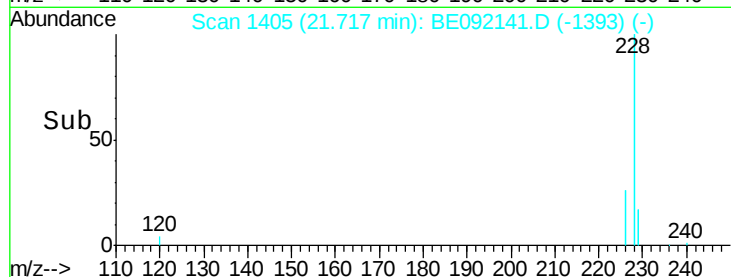
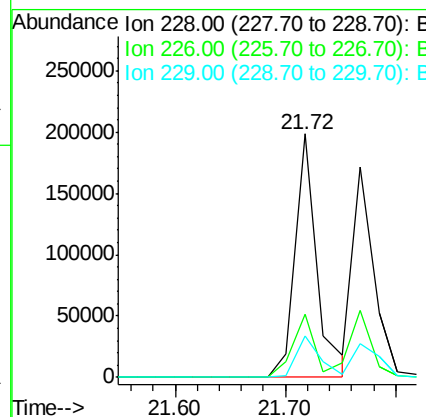
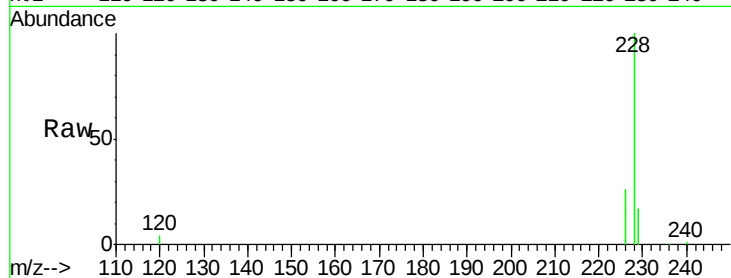
ClientSampleId :

PB92567BSD

Tot Ion:	228	Resp:	272925
Ion Ratio		Lower	Upper
228	100		
226	26.1	22.1	33.1
229	17.1	15.1	22.7

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#26

Chrysene

Concen: 2.73 ng m

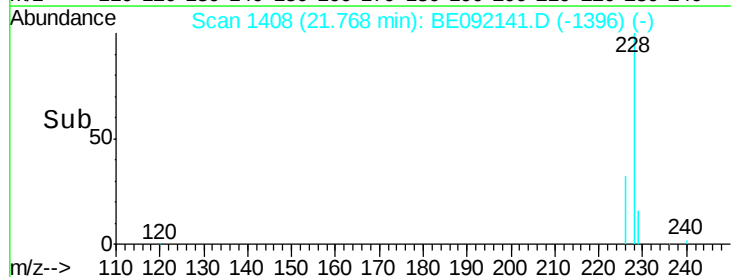
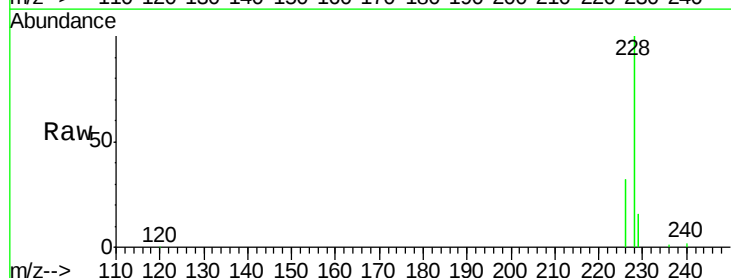
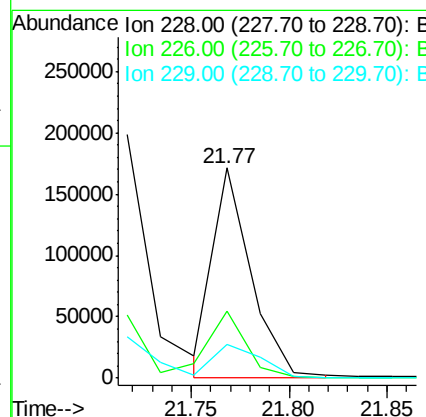
RT: 21.77 min Scan# 1408

Delta R.T. 0.00 min

Lab File: BE092141.D

Acq: 3 Aug 2016 9:59

Tgt Ion:	228	Resp:	233975
Ion Ratio		Lower	Upper
228	100		
226	31.8	22.3	33.5
229	16.3	16.9	25.3#





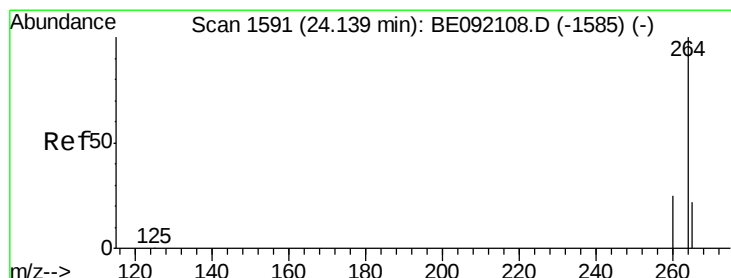
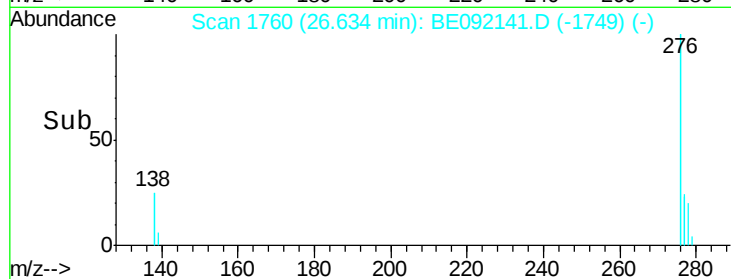
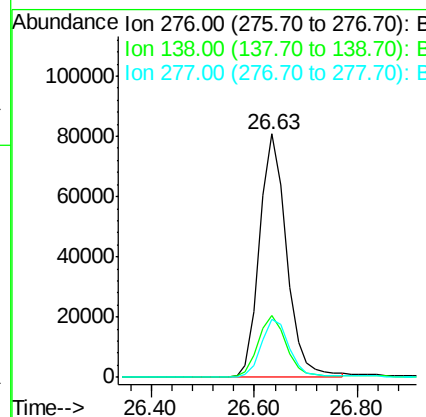
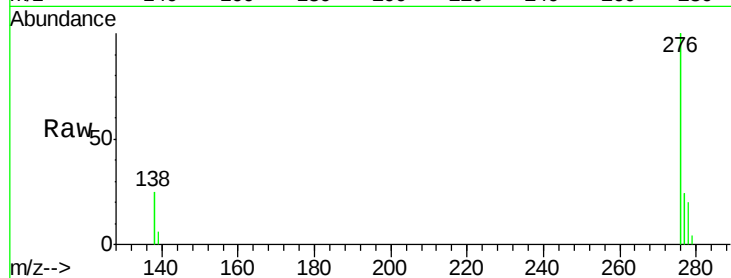
#27
 Indeno(1,2,3-cd)pyrene
 Concen: 3.09 ng
 RT: 26.63 min Scan# 1760
 Delta R.T. -0.02 min
 Lab File: BE092141.D
 Acq: 3 Aug 2016 9:59

Instrument :
 BNA_E
 ClientSampleID :
 PB92567BSD

Tot Ion	Ratio	Resp Lower	Upper
276	100		
138	26.1	21.2	31.8
277	24.5	19.8	29.8

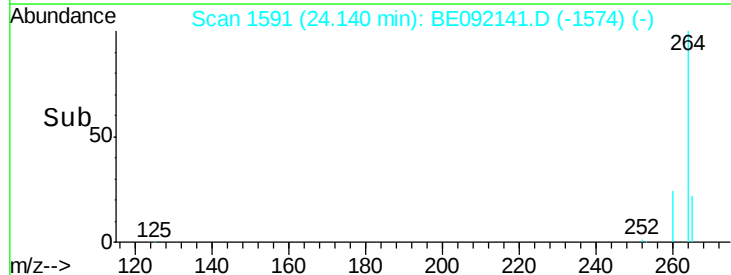
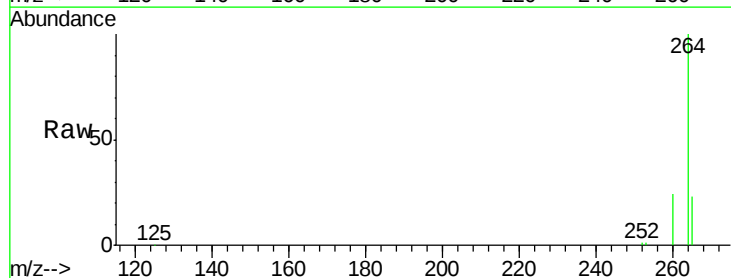
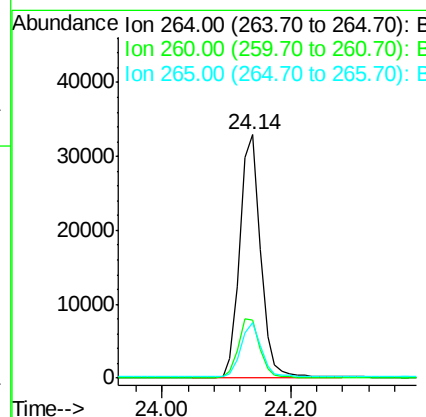
Manual Integrations
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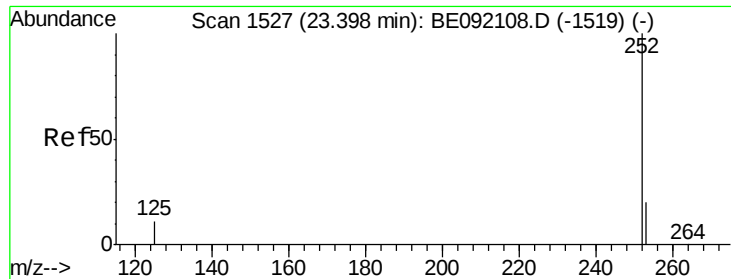
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#28
 Perylene-d12
 Concen: 5.00 ng
 RT: 24.14 min Scan# 1591
 Delta R.T. 0.00 min
 Lab File: BE092141.D
 Acq: 3 Aug 2016 9:59

Tgt Ion	Ratio	Resp Lower	Upper
264	100		
260	23.8	20.8	31.2
265	22.8	16.6	25.0





#29

Benzo(b)fluoranthene

Concen: 3.22 ng m

RT: 23.40 min Scan# 1527

Delta R.T. 0.00 min

Lab File: BE092141.D

Acq: 3 Aug 2016 9:59

Instrument :

BNA_E

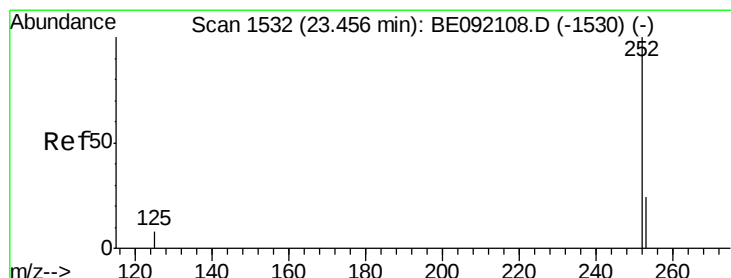
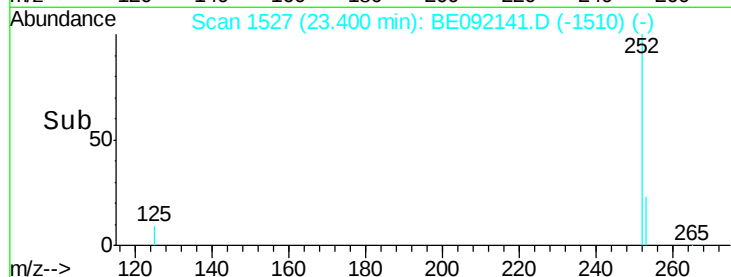
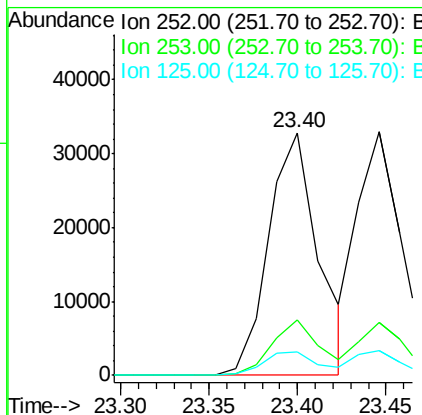
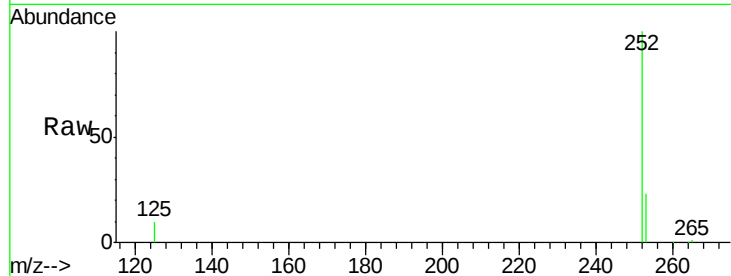
ClientSampleId :

PB92567BSD

Tot Ion	Ratio	Lower	Upper
252	100		
253	22.9	17.4	26.0
125	9.7	10.2	15.2

Manual Integrations
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#30

Benzo(k)fluoranthene

Concen: 3.06 ng

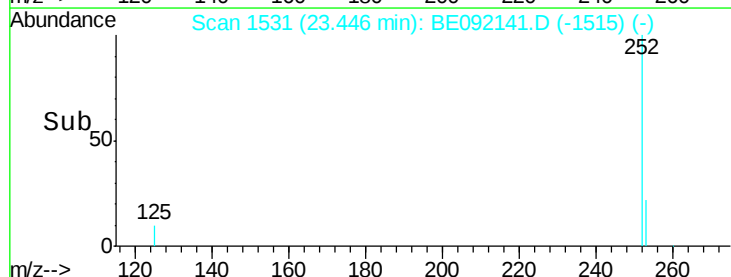
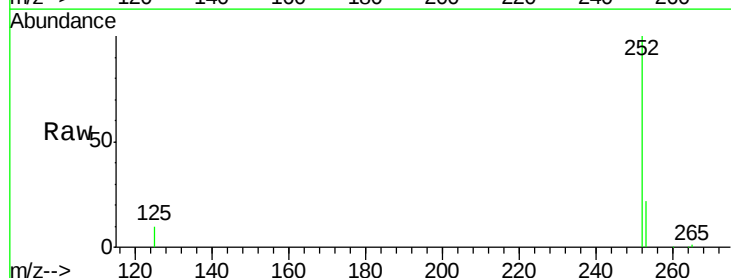
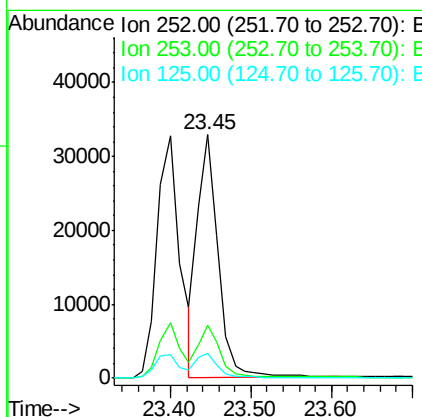
RT: 23.45 min Scan# 1531

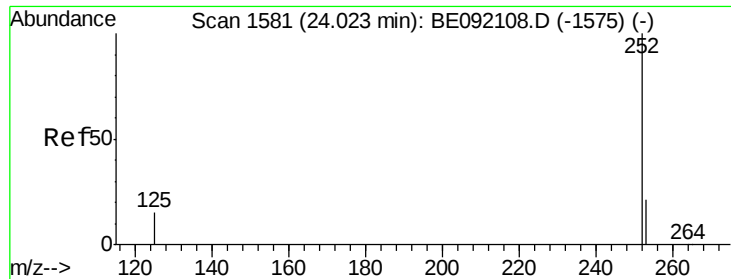
Delta R.T. -0.01 min

Lab File: BE092141.D

Acq: 3 Aug 2016 9:59

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.0	19.4	29.0
125	10.2	8.9	13.3





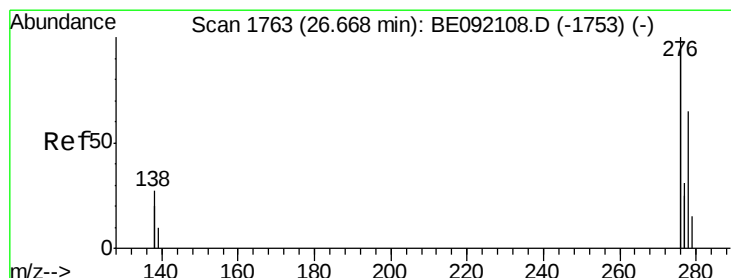
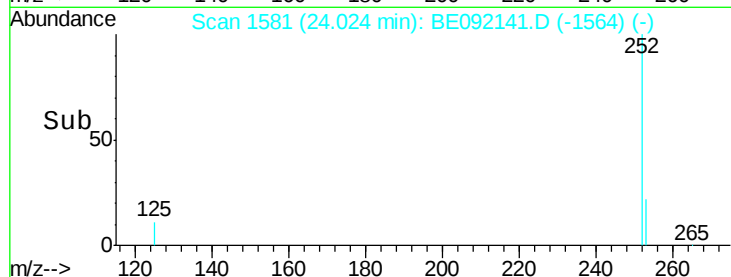
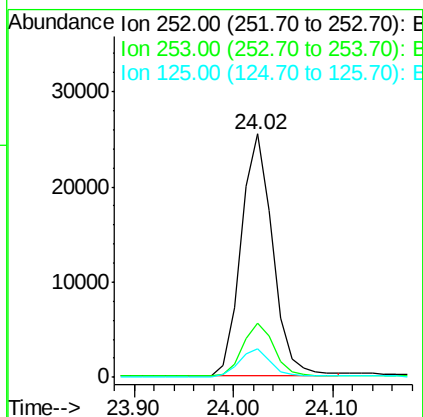
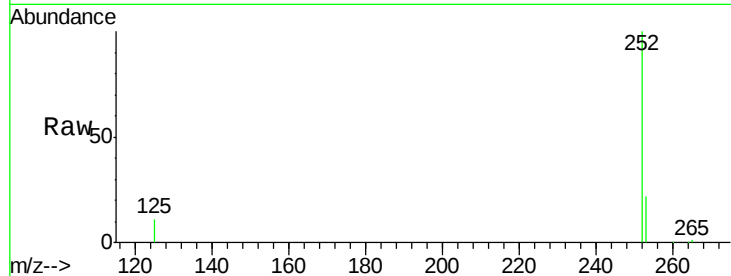
#31
Benzo(a)pyrene
Concen: 3.07 ng
RT: 24.02 min Scan# 1581
Delta R.T. 0.00 min
Lab File: BE092141.D
Acq: 3 Aug 2016 9:59

Instrument :
BNA_E
ClientSampleId :
PB92567BSD

Tot Ion	Ratio	Lower	Upper
252	100		
253	22.2	19.8	29.8
125	11.5	10.4	15.6

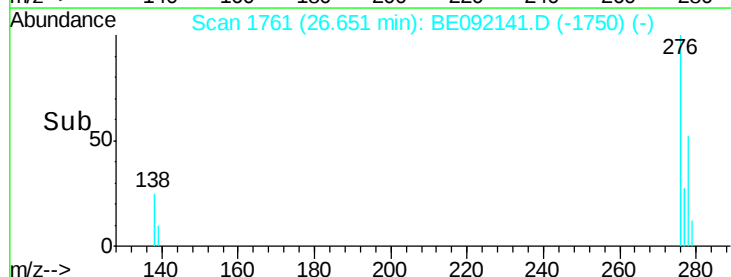
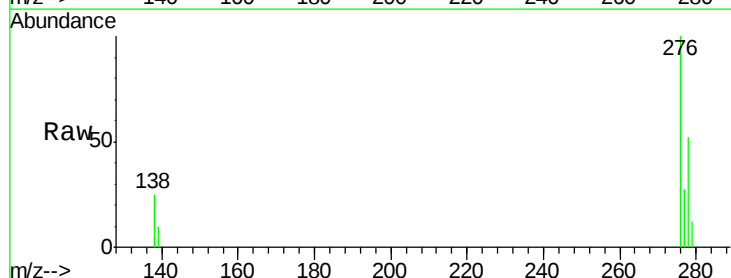
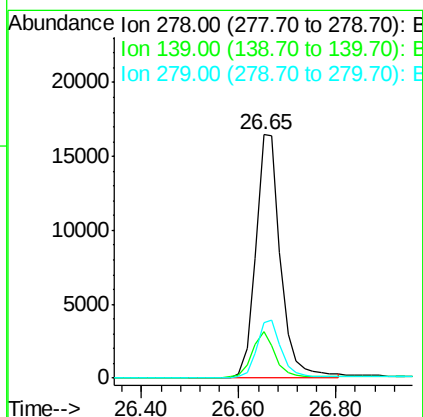
Manual Integrations
APPROVED

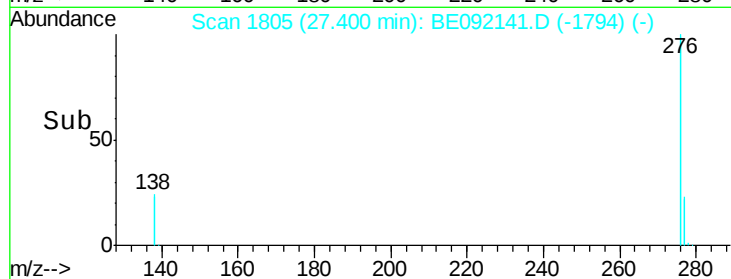
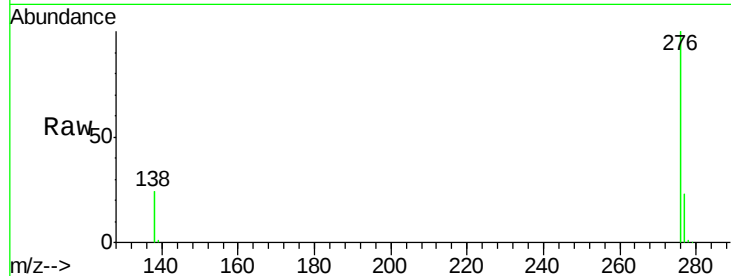
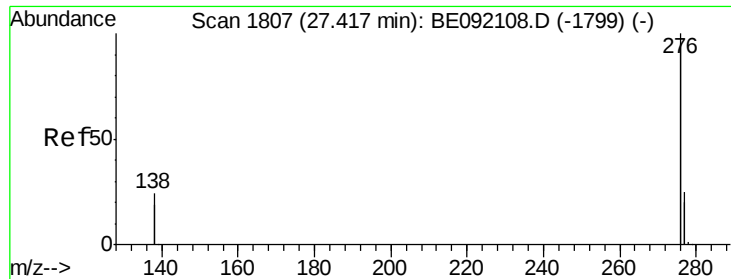
umangi
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#32
Dibenzo(a,h)anthracene
Concen: 3.35 ng
RT: 26.65 min Scan# 1761
Delta R.T. -0.02 min
Lab File: BE092141.D
Acq: 3 Aug 2016 9:59

Tgt Ion	Ratio	Lower	Upper
278	100		
139	19.3	16.7	25.1
279	22.7	20.3	30.5





#33

Benzo(a,h,i)perylene

Concen: 3.36 ng

RT: 27.40 min Scan# 1805

Delta R.T. -0.02 min

Lab File: BE092141.D

Acq: 3 Aug 2016 9:59

Tot Ion	Ratio	Resp Lower	Upper
276	100		
277	22.7	19.5	29.3
138	24.0	20.8	31.2

Instrument :

BNA_E

ClientSampleId :

PB92567BSD

Manual Integrations
APPROVED

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